BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Name of work: Improvements to drains of cross road of amruthnagara A sector in ward no.07, Byatarayanapura

Est cost: 60.00 lakhs

Name of Work:- Improvements to drains of cross road of amruthnagara A sector in ward no.07, Byatarayanapura									
			Estimate Cost:					60.00 Lakhs	
S.N	DESCRIPTION OF WOR	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	Desilting of drains								
	Park side road		2	270.00	0.60	0.60	194.40		
	10th cross		2	65.00	0.60	0.60	46.80		
	9th cross		2	40.00	0.60	0.60	28.80		
	Culverts		15	6.00	1.50	0.90	121.50		
	For RWU		11	3.14*0.8*0.8		3.00	16.58		
	(3.14x0.6x0.)/4 x 3.0			4					
	over burden earth		46	2	1	0.90	62.10		
					TOTAL		**470.18**	137.80	64790.69
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
2	Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable materail with all lifts complete as per specifications (page No. 139, item No. 18.17)								
	Slabs of Existing Culverts		15	6.00	1.50	0.20	**27.00**		
					TOTAL		**27.00**	481.24	12993.48
	Basic Rate:	cum	**454.00**						
	Area Weightage @ 6%		27.24						
	Total		**481.24**						
3	Dismantling size stone masonry in clay mortar and stacking the size stone within a radius of 50m and removing the debris to a distance upto 200m. **(P-270,It.37.48)**								
	SSM of Existing Culverts		30	6.00	0.60	0.90	**97.20**		
					TOTAL		**97.20**	287.26	27921.67
	Basic Rate:	cum	**271.00**						
	Area Weightage @ 6%		16.26						
	Total		**287.26**						

4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration inlcuding curing for 14 days including cost of all materials labour, HOM curing, form works, scaffolding and centering complete as per specification . (Pg.No.222, It.27.18)								
	Culverts		30	6.00	1.50	0.15	40.50		
	Below kerb								
	Park side road		2	270.00	0.45	0.10	24.30		
	10th cross		2	65.00	0.45	0.10	5.85		
	9th cross		2	40.00	0.45	0.10	3.60		
					TOTAL		**74.25**	5421.90	402576.08
	Basic Rate:	cum	5115.00						
	Area Weightage @ 6%		306.90						
	Total		5421.90						
5	Providing and laying in plain reinforced cement concrete mix 1:2:4 with OPC @ 240 kgs, with 40 mm and down size graded granite matel coarse aggregates @ 0.84 cum and fine aggragtes @ 0.56cum, in pen foundations including including cost of all materials, labour HOM machinery form works scaffolding and centering complete as per sprcifications complete as per drawing anf techinal specifications. Pg No.222, It No.27.24)								
	Culverts		15	6.00	0.60	0.15	8.10		
	coping		30	6.00	0.60	0.10	10.80		
					TOTAL		**18.90**	5409.18	102233.50
	Basic Rate:	cum	5103.00						
	Area Weightage @ 6%		306.18						
	Total		5409.18						
6	Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								
	Culvert		30	6.00	0.60	0.90	97.20		
					TOTAL		**97.20**	4871.76	473535.07
	Basic Rate:	cum	4596.00						
	Area Weightage @ 6%		275.76						
	Total		4871.76						
7	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. (Page No. 115 / Item No. 15.4)								
	Culvert		30	6.00		0.90	162.00		
					TOTAL		**162.00**	148.40	24040.80
	Basic Rate:	sqm	140.00						
	Area Weightage @ 6%		8.40						
	Total		148.40						

8	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Culvert		150	1.50	0.60		225.00		
					TOTAL		**225.00**	5418.00	1219050.00
	Data Rate:	sqm	5418.00						
	Area Weightage @ 6%		0.00						
	Total		5418.00						
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.7.5 cm thick (Pg No.27, Item No.5.31.1)								
	For new drains								
	Park side road		2	270.00	1.35		729.00		
	10th cross		2	65.00	1.35		175.50		
	9th cross		2	40.00	1.35		108.00		
					TOTAL		**1012.50**	742.00	751275.00
	Basic Rate:	sqm	700.00						
	Area Weightage @ 6%		42.00						
	Total		742.00						
10	Providing and constructing load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work.(Pg No.27, Item No.5.28)								
	Park side road		2.00	270.00	0.10		54.00		
	10th cross		2.00	65.00	0.10		13.00		
	9th cross		2.00	40.00	0.10		8.00		
					TOTAL		**75.00**	859.66	64475.00
	Basic Rate:	Sqm	811.00						
	Area Weightage @ 6%		48.66						
	Total		859.66						
11	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete10cms thick.(Pg No.27, Item No.5.31.2)								
	For new drains								
	Park side road		2	270.00	0.75		405.00		
	10th cross		2	65.00	0.75		97.50		
	9th cross		2	40.00	0.75		60.00		
					TOTAL		**562.50**	966.72	543780.00
	Basic Rate:	sqm	912.00						
	Area Weightage @ 6%		54.72						
	Total		966.72						
12	Providing one line dressing to granite stone slabs/granite stone masonry as per specifications.KBS 5.1.13 5.17								
	Park side road		2	270.00	0.75		405.00		
	10th cross		2	65.00	0.75		97.50		
	9th cross		2	40.00	0.75		60.00		
					TOTAL		**562.50**	950.82	534837.00
	Basic Rate:	sqm	897.00						
	Area Weightage @ 6%		53.82						
	Total		950.82						

13	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete.Pg No. 27, Item No.5.29.1								
	Park side road		2	270.00			540.00		
	10th cross		2	65.00			130.00		
	9th cross		2	40.00			80.00		
							750.00		
			TOTAL(total length/0.45)				**1666.67**		
							1661	467.46	776452.00
	Basic Rate:	Nos	441.00						
	Area Weightage @ 6%		26.46						
	Total		467.46						
14	:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 124 / Item No. 15.80								
			1666.67		0.45		750.00		
					TOTAL		**750.00**	39.22	29415.00
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		39.22						
15	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
					TOTAL		**470.18**	94.34	44357.00
	Basic Rate	cum	**57.00**						
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
16	Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 2900 Page No. 255, Item No. 34.7.8,								
			11	3.00	--	--	33.00		
					TOTAL		**33.00**	5976.28	**197217.24**
	Basic Rate:	mtr	5638.00						
	Area Weightage @ 6%		338.28						
	Total		5976.28						

17	Providing 100mm and down size nominal size. (Pg No.I.Item No.28)								
	For Pit		11	0.28		1.00	3.11		
	(3.14x0.6*0.6)/4	Cum			TOTAL		**3.11**	987.52	**3071.19**
18	Providing 40mm and down size nominal size (Pg No.Ii.Item No.30)								
	For Pit		11	0.28		0.40	1.24		
	(3.14x0.6*0.6)/4	Cum			TOTAL		**1.24**	1091.43	**1353.37**
19	Providing 20mm and down size nominal size (Pg No.Ii.Item No.33)								
	For Pit		11	0.28		0.40	1.24		
	(3.14x0.6*0.6)/4	Cum			TOTAL		**1.24**	1091.43	**1353.37**
20	Providing Fine aggrgate 2.36mm nominal size (Pg No.Ii.Item No:37)								
	For Pit		11	0.28		0.30	0.93		
	(3.14x0.6*0.6)/4	Cum			TOTAL		**0.93**	1054.29	**980.49**
21	Direction and place identification signs upto 0.9 sqm size Board - Providing and erecting direction and place identification retro-reflectorised signs as per revised IRC : 67-2012 made of high intensity grade sheeting vide clause 800.1.3, fixed over aluminium sheeting, 2mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75x75x6mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45x45x60cm, 60cm below ground level as per approved drawing complete as per specifications. MORTH Specification No.801 Type IV sheeting (Page no.179, item no.24.3.1)								
	Name boards		10.00	0.6	0.45		**2.70**		
	Small size		10.00	0.6	0.15		**0.90**	7274.78	26,189.20
		Nos					**3.60**	7111.8	25602.48
22	Providing and applying readymix priming coat concrete / masonry / asbestos cement sheet /plasterd surface including preparing the surface after throughly cleaning of oil grease dirt and other foreign matter and sand papering cost of materials labour as per specifications (page no.124, item no.15.80)								
	Name boards		10*2	0.6		0.45	5.40		
			10*2	0.6		0.15	1.80		
	pipes		10.00	0.31		2.6	8.06		
	Existing boards		10*2	0.6		0.45	5.40		
			10*2	0.6		0.15	1.80		
			10.00	0.31		2.6	8.06		
							30.52	39.22	1196.99
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		39.22						
23	Supply MS. Pipe. Code No. 256.SI No.301. Pg No.X. 2.5MM DIA & 2.5MM THICK								
		MTS	10.00	2.6		14.5	**377.00**	84.75	31950.75
	Basic Rate:	Nos	84.75						
	Total		84.75						

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24	Painting on Steel surface :- Providing and applying two coats of ready mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications.complete as per specifications. MORTH Specification No.803(page no.180, item								
	New boards		10.00	0.31		2.6	8.06		
			10*2			0.6	90.00		
	Old boards		10.00	0.31		2.6	8.06		
			10*2			0.6	90.00		
							196.12	76.32	14967.88
	Basic Rate:	sqm	72.00						
	Area Weightage @ 6%		4.32						
	Total		76.32						
25	Painting new latter and figures any shade with synthetic enamel paint black or any approvel colour to give an even shede complete as per specification (I) Hindi (Matras commas and the like not to be measured and paid for half latter shall be counted as half) (page no.181, item no.24.9)								
	New boards		10.00	7	45		3150.00		
	old boards		10.00	7	45		3150.00		
							6300.00	1.06	6678.00
	Basic Rate:	cm	1.00						
	Area Weightage @ 6%		0.06						
	Total		1.06						
26						**Sub Total**			**5356104.06**
27				**Add 12% GST charges**					642732.49
28				**Miscelleneous charges**					1163.45
29						**Total**			**6000000.00**

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

ADMINISTRATIVE APPROVAL

Accorded For Rs. 60.00 Lakhs only

Head of A/c. P3522

Div. Ref. No. 106/19-20 Date 29-2-2020

EE(BTP)

Technically sanctioned for Rs. 60,00,000/-

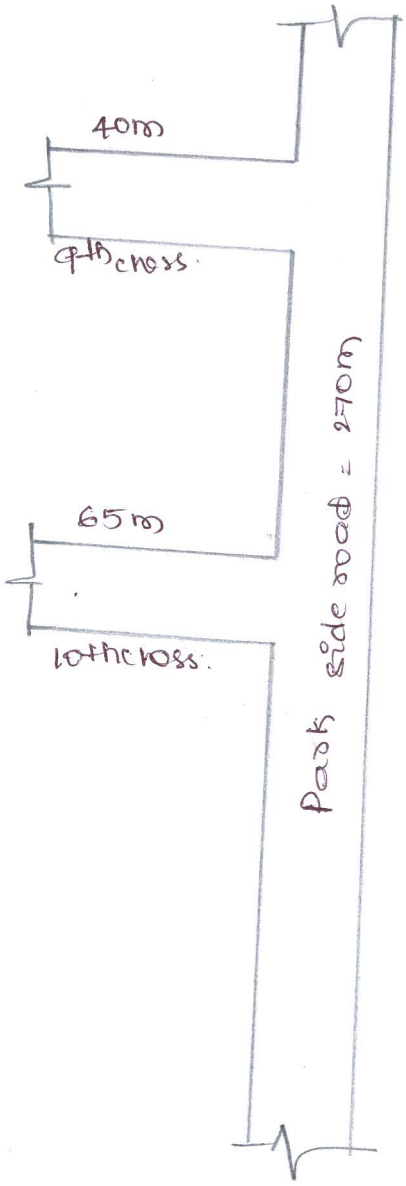
Rs in Words SIXTY LAKH ONLY

Under P 3522

Job Code No. 007-19-000014

Registered as SE(Y)/TS/ 33 / 19-20 subject to conditions contained in enclosed memo No. 33 / 19-20 Dated: 4/3/2020

Name of Work:- Improvements to drains of cross roads of Amruthanagar 'D' sector in ward no.07, byatarayanapura:



AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092